Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A semiconductor device, comprising:

a source region formed of a semiconductor;

a drain region formed of a semiconductor of the same conductive type as that of said source region;

a channel region formed of a semiconductor between said source region and said drain region;

a gate insulating film provided on said channel region; and

a gate electrode provided on said gate insulating film and formed with a P-N junction including a P-type semiconductor region and an N-type semiconductor region, said P-N junction extending parallel to a source-drain direction of said source region and said drain region,

wherein said P-type semiconductor region and said N-type semiconductor region of said P-N junction of said gate electrode are electrically insulated on all sides of said P-N junction,

wherein said gate electrode includes a first gate portion provided above said channel region and a second gate portion provided in the semiconductor device overlying outside of a region which consists of said channel region, said source region and said drain region, and said second gate portion includes said P-N junction.

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Claim 2 (original): The semiconductor device according to claim 1,

wherein silicide is not formed on said P-N junction of said gate electrode.

Claim 3 (original): The semiconductor device according to claim 1,

wherein said P-N junction of said gate electrode is covered with an insulating material.

Claim 4 (original): The semiconductor device according to claim 3,

wherein silicide is formed on a part of said gate electrode which is not covered with said insulating material.

Claim 5 (canceled)

Claim 6 (previously presented): The semiconductor device according to claim 1, further comprising;

a body region formed of a semiconductor under said channel region;

a buried insulating film provided under said body region, said source region, and said drain region; and

a semiconductor substrate region provided under said buried insulating film.

Claim 7 (original): The semiconductor device according to claim 1,

wherein silicide is formed on surfaces of said source region and said drain region.

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Claim 8 (original): The semiconductor device according to claim 6, further comprising;

a body contact region formed within said body region and having a higher impurity concentration than said body region.

Claim 9 (original): The semiconductor device according to claim 8,

wherein said body contact region is formed in a region outside said second gate portion.

Claim 10-12 (canceled)